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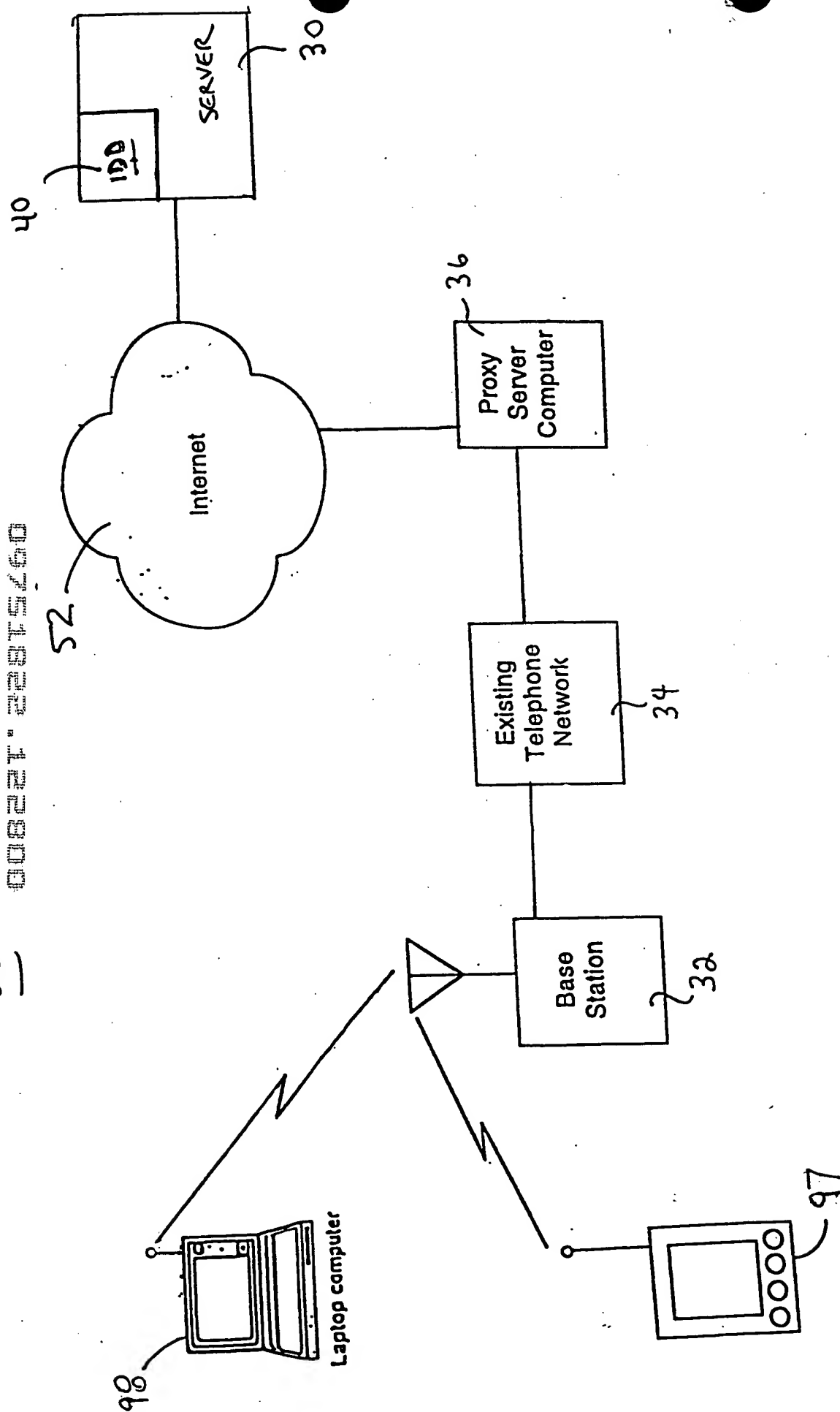


FIGURE 1

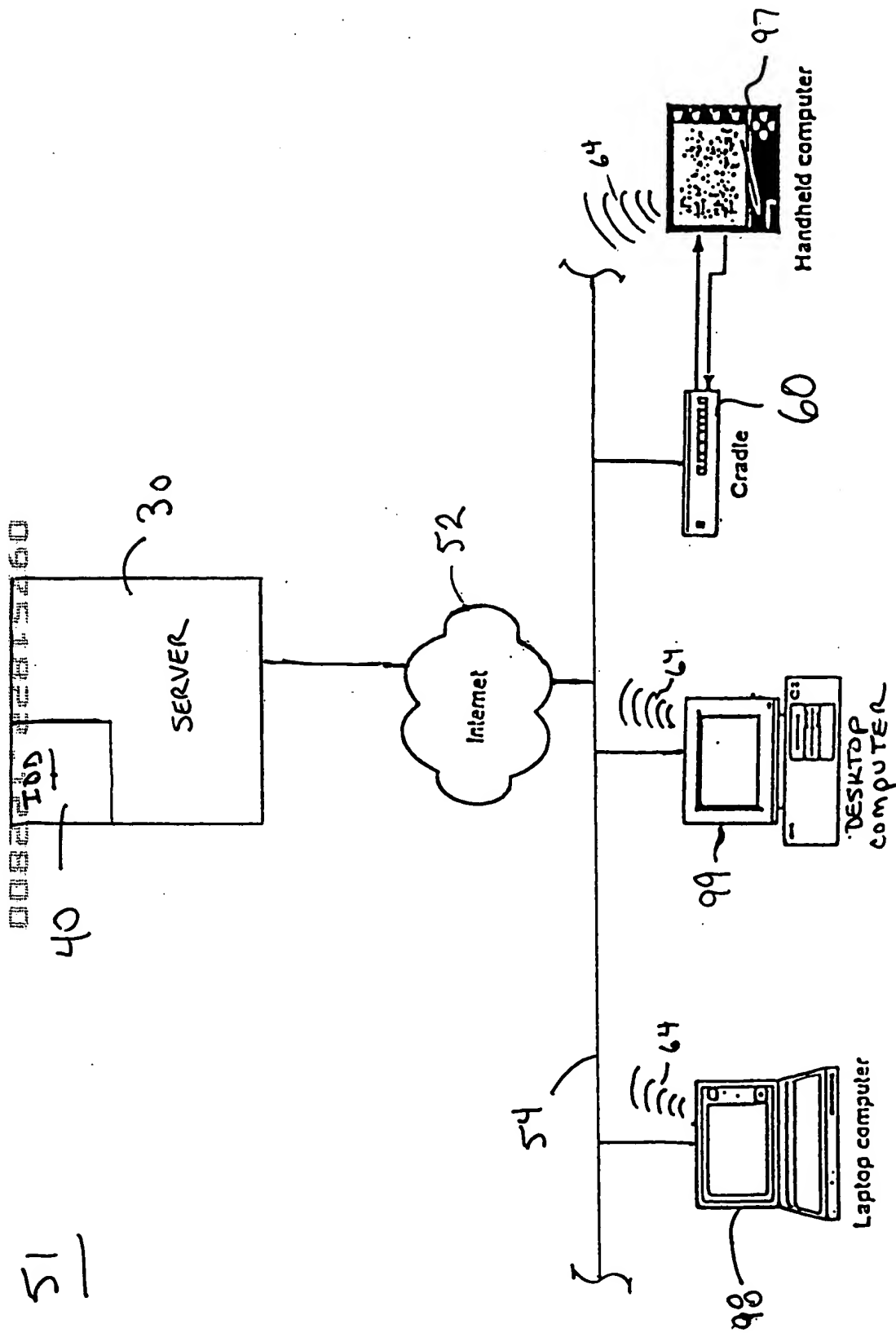
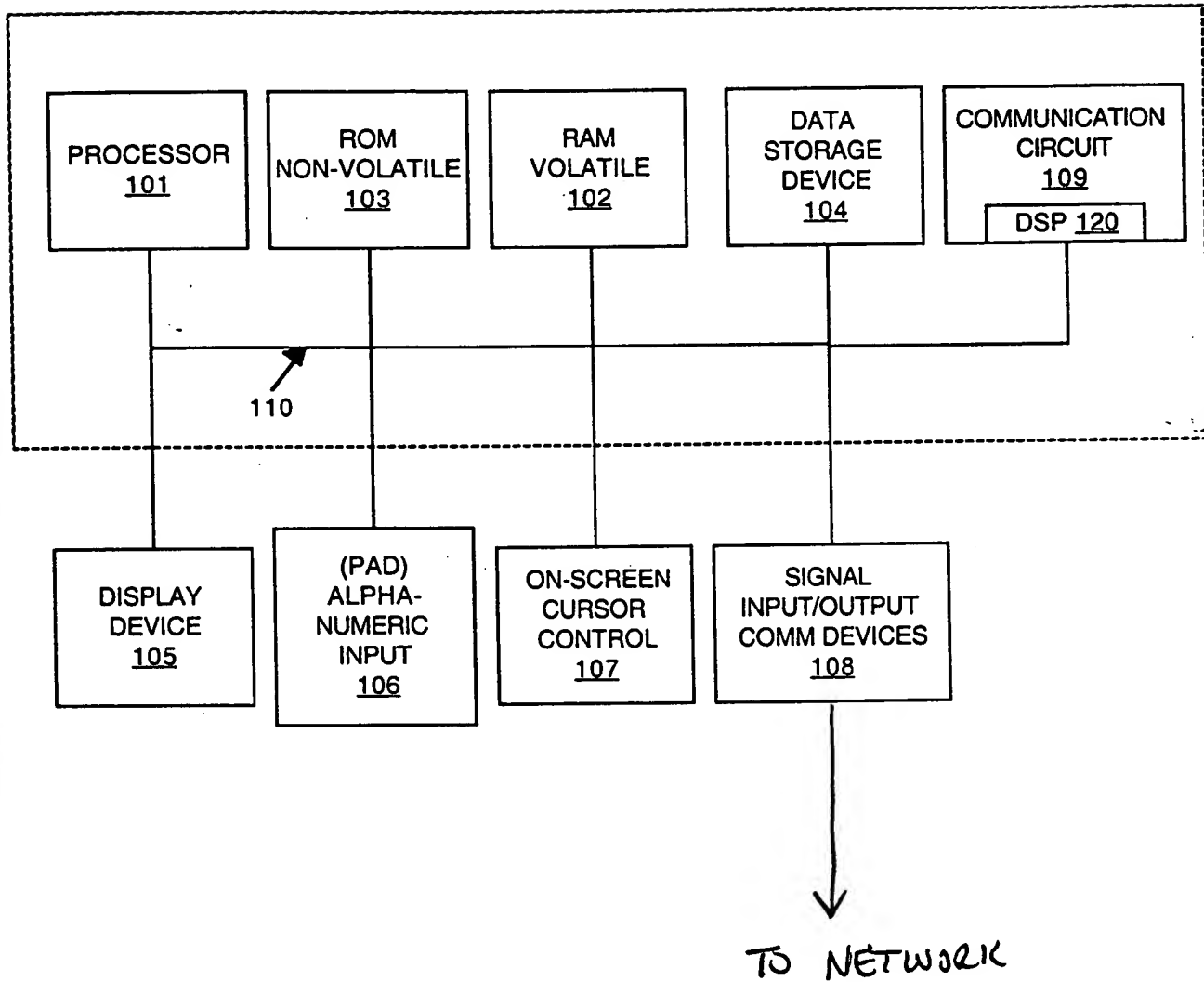


FIGURE 2

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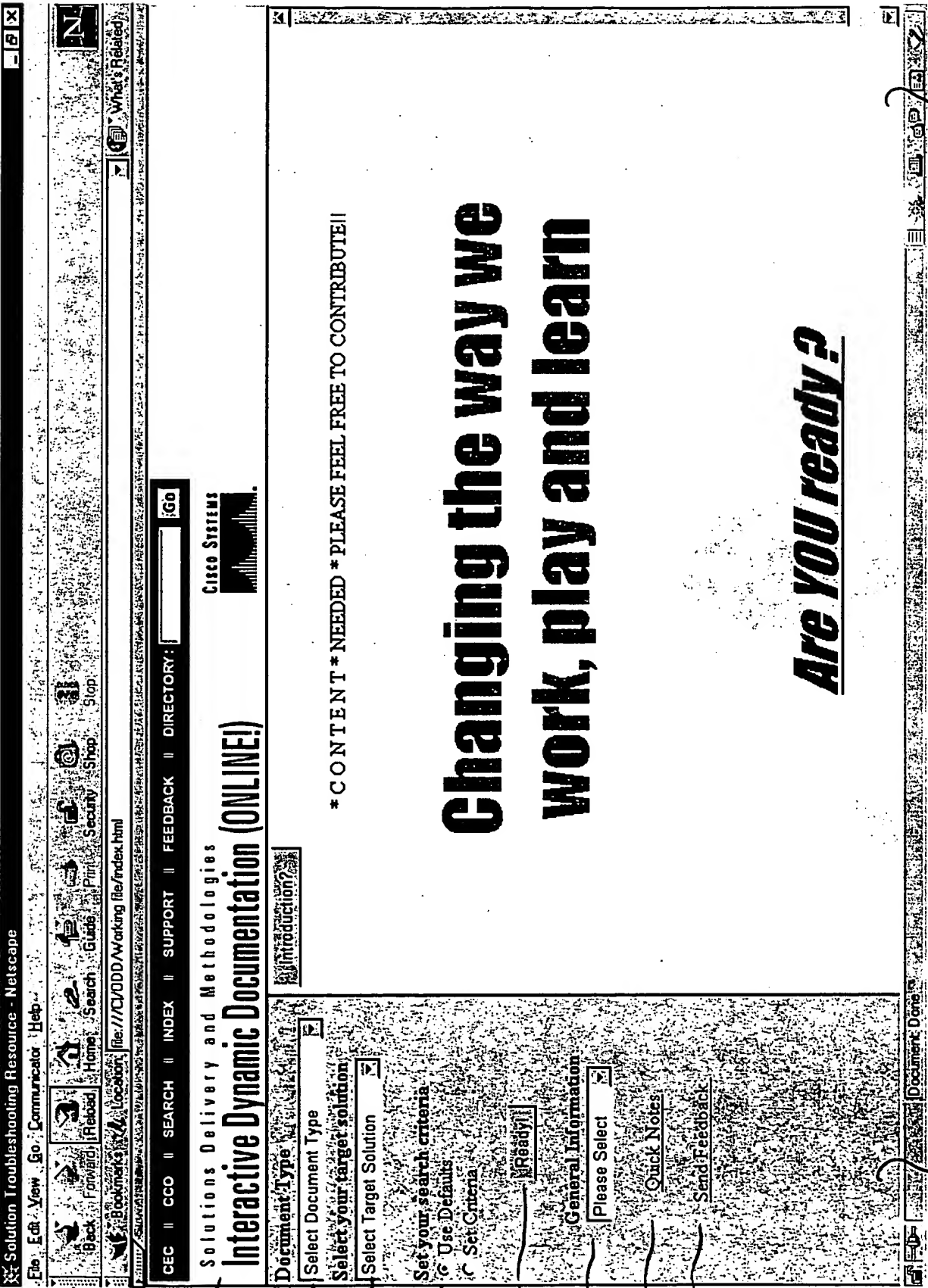
Figure 3

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Figure 4

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FIGURE 5

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FIGURE 6C

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FIGURE 6D

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Figure 6E

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FIGURE 6F

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**Troubleshooting and Analysis Assistant**

Thunder Dial 2.1 Solution Overview

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The Cisco SS7 Interconnect for Access Servers Solution is a distributed system used for interconnecting Cisco network access servers (NASs) to a circuit-switched TDM network using Signaling System #7 (SS7) protocols for signaling. The interconnections are achieved using a protocol conversion platform called the Cisco Signaling Controller combined with the Cisco Signaling Link Terminal. The Cisco SC2200 comprises the hardware and software package that provides the signaling controller function in the Cisco SS7 Interconnect for Access Servers Solution. It provides high availability, high performance, and key scaling.

When large points of presence (POPs) receive calls from the Public Switched Telephone Network (PSTN), the traffic is running over legacy architectures. In-band signaling (such as Integrated Services Digital Network Primary Rate Interfaces (ISDN PRLs) in-band channel-associated signaling (CAS), or single analog lines) rather than out-of-band signaling like SS7 is used. With both signaling and bearer traffic running over the lines, these legacy switches become congested with modem traffic and limited circuits. Cisco offers the Cisco SS7 Interconnect for Access Servers Solution that offloads the signaling to an out-of-band network so that available bandwidth increases.

The Cisco SS7 Interconnect for Access Servers Solution is a distributed system that adds SS7 signaling interfaces to large ISP POPs. SS7 interfaces are connected to the PSTN by using the same signaling technology as a PSTN switch. The Cisco SS7 Interconnect for Access Servers Solution consists of the Cisco signaling controller (also referred to as the Cisco SC2200 product), which includes the Cisco Signaling Link Terminal (Cisco SLT) and the network access server (NAS). The Cisco SS7 Interconnect for Access Servers Solution turns a POP into an end-office switching system in the PSTN, allowing direct peer-to-peer signaling connectivity. The POP, as a switch, connects directly to the rest of the network as a peer. After connections to the Internet are aggregated at a POP, streams of user packets are statistically multiplexed for efficient transport over the backbone network.

FIGURE 7A

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FIGURE 3A

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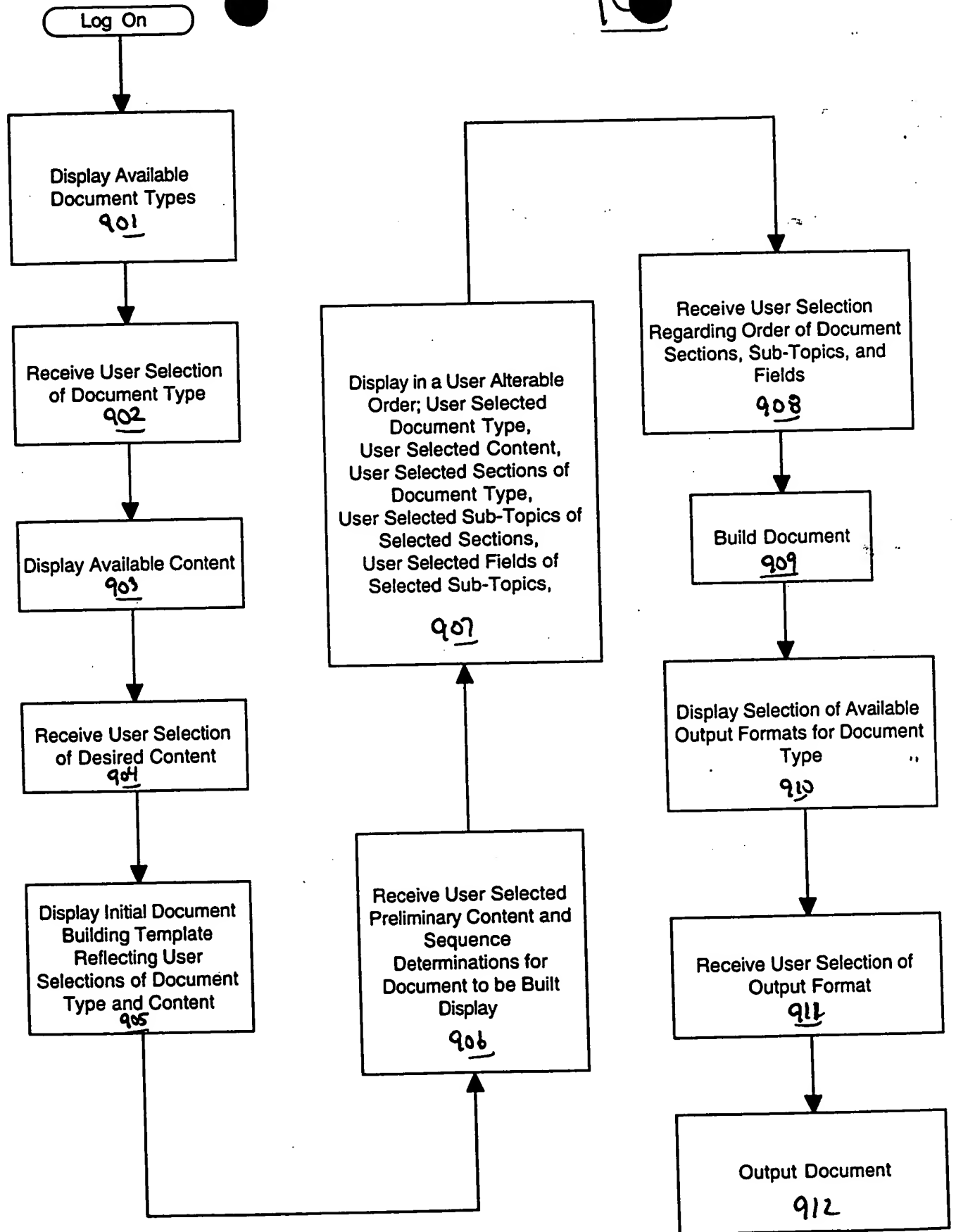


FIGURE 9